### PATENT COOPERATION TREATY

## **PCT**

# TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

JJP04-0025		FOR FURTHER A	ACTION	See Form PCT/IPEA/416			
International application No.		International filing d	ate (day/month/year)	Priority date (day/month/year)			
PCT/JP2004/019328		24.12.200	4	25.12.2003			
Internation	onal Patent Classification (IPC	) or national classification and	IPC				
H011	M2/02, H01M4/0	2, H01M4/58, I	H01M10/40				
Applicant SANYO ELECTRIC CO., LTD.							
1.	1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.						
2.	This REPORT consists of a to	otal of 4	sheets, including	g this cover sheet.			
3.	This report is also accompani	ed by ANNEXES, comprising	:				
	a. (sent to the applic	ant and to the International Bi	ureau) a total of	sheets, as follows:			
		ining rectifications authorized		nmended and are the basis for this report and/or the 70.16 and Section 607 of the Administrative			
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.						
		ational Bureau only) a total of	(indicate type and numbe	er of electronic carrier(s))			
	(30.11.10.11.10.11.1		(moreur type and name)				
	, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).						
4.	This report contains indicatio	ns relating to the following iter	ms:				
	Box No. I Bas	is of the report					
	Box No. II Price	ority					
	Box No. III Nor	n-establishment of opinion witl	n regard to novelty, invent	ive step and industrial applicability			
	Box No. IV Lac	k of unity of invention					
	Box No. V  Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
	Box No. VI Cer	tain documents cited					
	Box No. VII Cer	tain defects in the international	application				
	Box No. VIII Certain observations on the international application						
Date of submission of the demand			Date of completion of th	is report			
Name and mailing address of the IPEA/JP			Authorized officer				
Faccimile No.		Talanhana Na					

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/019328

Вох	No. I	]	Basis of the report		
1.			to the language, this report is based on the internation or this item.	nal application in the language in which	it was filed, unless otherwise
			report is based on translations from the original language into the following h is the language of a translation furnished for the purposes of:		
		int	ternational search (Rule 12.3 and 23.1(b))		
		D pu	ublication of the international application (Rule 12.4)		
		int	ternational preliminary examination (Rule 55.2 and/	or 55.3)	
2.	rece		o the <b>elements</b> of the international application, this ice in response to an invitation under Article 14 are		
	$\boxtimes$	the inter	rnational application as originally filed/furnished		
		the desc	ription:		
		pages			as originally filed/furnished
		pages*			
		pages*		received by this Authority on	
		the clair	ms:		
		nos.			as originally filed/furnished
		nos.*			any statement) under Article 19
		nos.*		<del></del>	
		nos.*			
	П	the draw	vings:		_
		sheets			as originally filed/furnished
		sheets*			_
		sheets*			
	П		nce listing and/or any related table(s) – see Suppleme		
	$\Box$	_		mean Box Relating to Sequence Listing.	
3.	ш		endments have resulted in the cancellation of:		
			e description, pages		
			e claims, nos.		
			e drawings, sheets/figs		
	_				
4.	Ш		port has been established as if (some of) the amend we been considered to go beyond the disclosure as fil		
		L the	e description, pages		
		L the	e claims, nos.		
		L th	e drawings, sheets/figs		
		L the	e sequence listing (specify):		
		L an	ny table(s) related to sequence listing (specify):		
*	If ite	m 4 appli	ies, some or all of those sheets may be marked "supe	rseded."	

International application No.		
PCT/JP2004/019328		

Box	x No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement	
1.	Statement	
	Novelty (N) Claims 1-7	YES
	Claims	
	Inventive step (IS) Claims 1-7	YES
	Claims	
	Industrial applicability (IA) Claims 1-7	YES
	Claims	3.50
2.	Citations and explanations (Rule 70.7)	
۷.	Document 1: JP 2002-124297 A (Ube Industries, Ltd.), 26	
	April 2002	
	Document 2: JP 2002-343426 A (Mitsui Chemicals, Inc.), 29	
	January 2002	
	Document 3: JP 2001-43899 A (Toshiba Corporation), 16	
	February 2001	
	Document 4: JP 8-50923 A (Sumitomo Chemical Co., Ltd.),	
	20 February 1996	
	Document 5: JP 2003-282140 A (Osaka Gas Co., Ltd.), 3	
	October 2003	
	Document 6: JP 11-283668 A (Sanyo Electric Co., Ltd.), 15	
	October 1999	
	The invention set forth in claims 1 to 7 is novel	
	and involves an inventive step.	
	In the nonaqueous electrolyte secondary battery set	
	forth in claims 1 to 7, the feature wherein "the	
	nonaqueous electrolyte contains vinylene carbonate and	
	di(2-propynyl)oxalate, and the quantity of the	
	aforementioned vinylene carbonate added falls within the	
	range of 0.1wt% to 3wt% in relation to the weight of the	
	aforementioned nonaqueous electrolyte, and the quantity	
	of the aforementioned di(2-propynyl)oxalate added falls	

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International application No.
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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
within the range of $0.1$ wt% to $2$ wt% in relation to the
weight of the aforementioned nonaqueous electrolyte", is
not disclosed in documents 1 to 6 cited in the
international search report, and would not be obvious to
a person skilled in the art.